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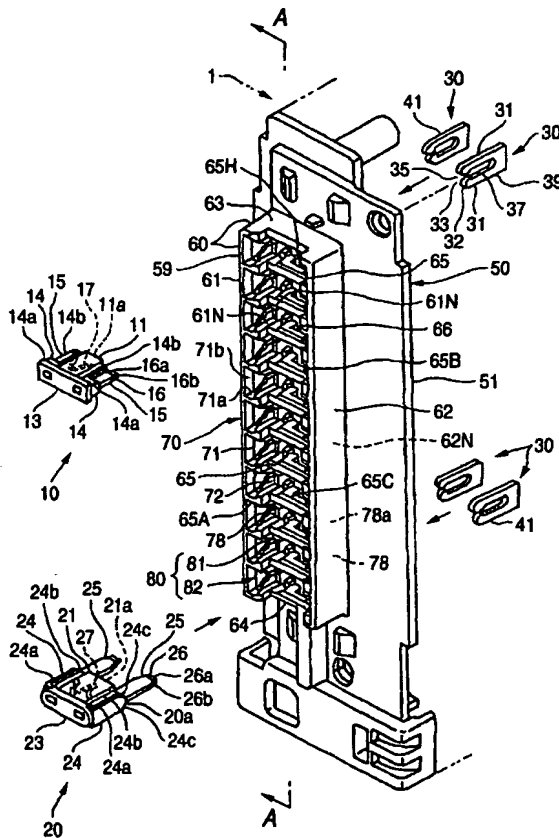
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(75) Inventor/Applicant (for US only): **KUBOTA, Katsuhiko**

[Continued on next page]

(54) Title: FUSE CAVITY STRUCTURE AND ELECTRIC CONNECTION BOX



(57) Abstract: Fuse cavity structure includes fuses (10, 20) in which each of fusible elements (17, 27) for protecting a circuit from overcurrent is located between terminals (15 or 25), and a housing (59) in which the fuses (10, 20) are mounted; a part of a wall (65) of the housing (59) which partitions the fuse (10, 20) and fuse (10, 20) is removed thereby to form a notch (65H) in the wall (65); and space is provided between the fuses (10 or 20). The notch (65H) is formed by notching the wall (65) corresponding to at least a part of the fusible portion (17, 27).

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Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/JP2004/004864

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H02G3/08

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H02G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 772 759 A (ROY ET AL.) 20 September 1988 (1988-09-20) column 3, line 44 - column 3, line 49; figure 1	1-4
X	JP 09 093757 A (YAZAKI CORP) 4 April 1997 (1997-04-04) abstract	1-4
X	US 5 488 345 A (SEKI ET AL.) 30 January 1996 (1996-01-30)	5,6,9,10
Y	column 6, line 8 - column 6, line 62; figures 6-8	7,8,11, 12
Y	JP 2002 124175 A (YAZAKI CORP) 26 April 2002 (2002-04-26) cited in the application abstract	7,8,11, 12

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \* & \* document member of the same patent family

Date of the actual completion of the international search

1 September 2004

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## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/JP2004/004864

### Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-4

A fuse cavity structure in which the housing accommodating a fuse has a notch portion in a wall  
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2. claims: 5-12

A fuse cavity structure in which a fuse has a jig engagement portion and the housing accommodating a fuse has a groove corresponding to the jig engagement portion  
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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP2004/004864

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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